

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of the Claims:

Claim 1 (Previously Presented): A device for driving boreholes in the ground, having a rotationally driven main shaft (12) comprising a shaft journal (11) whose axis (B) forms an acute angle (w) with respect to the axis (A) of the main shaft (12), and having a drill head (1) which is mounted such that the drill head can rotate about the axis (B) of the shaft journal (11) and has a circumferential region (18) which runs on a complementary circumferential region (19) so that the drill head is shifted in rotational speed reciprocal to the main shaft, wherein the complementary circumferential region (19) can be set rotating.

Claim 2 (Previously Presented): The device as claimed in claim 1, wherein the circumferential region (18) has an external tooth system and the complementary circumferential region (19) has an internal tooth system.

Claim 3 (Previously Presented): The device as claimed in claim 1, wherein the complementary circumferential region (19) is formed by a hollow wheel (21) arranged concentrically with respect to the axis (A) of the main shaft (12).

Claim 4 (Previously Presented): The device as claimed in claim 1, wherein the complementary circumferential region (19) can be set rotating by means of a planet gear mechanism (28) in engagement with the main shaft (12).

Claim 5 (Previously Presented): The device as claimed in claim 1, wherein the complementary circumferential region (19) can be set rotating by means of a separate drive independently of the main shaft (12).

Claim 6 (Previously Presented): The device as claimed in claim 5, wherein the separate drive can be controlled or regulated.

Claim 7 (Previously Presented): The device as claimed in claim 1, wherein means are provided using which the advance of the drill can be set rotating as a function of the output of the rotary drive of the main shaft.

Claim 8 (Previously Presented): The device as claimed in claim 7, wherein the input drive can be controlled or regulated.

Claim 9 (Previously Presented): The device as claimed in claim 1, further comprising means for controlling or regulating the advance of the drill as a function of the output of the rotary drive of the main shaft.

Claim 10 (Previously Presented): The device as claimed in claim 9, in which the drill is advanced and the main shaft is driven in rotation using a hydraulic medium, wherein means are provided which control or regulate the hydraulic pressures for effecting the advance of the drill and for driving the main shaft in rotation.

Claim 11 (Currently Amended): The device for driving boreholes in the ground as claimed in claim 1, having a rotationally driven main shaft (12) comprising a shaft journal (11) whose axis (B) forms an acute angle (w) with respect to the axis (A) of the main shaft (12), and having a drill head (1) which is mounted such that the drill head can rotate about the axis (B) of the shaft journal (11) and has a circumferential region (18) which runs on a complementary circumferential region (19); as claimed in claim 1, wherein the drill head (1) is of multipart design such that the part of the drill

head subjected to wear can be separated from the part of the drill head that causes the drill head to bear on the shaft journal (11).

Claim 12 (Previously Presented): The device as claimed in claim 11, wherein the drill head (1) comprises a central bearing part (3) and a tool part (30) fastened detachably thereto.

Claim 13 (Previously Presented): The device as claimed in claim 12, wherein the tool part (30) is fastened to the bearing part (3) by means of screws uniformly distributed over a pitch circle.

Claim 14 (Currently Amended): The device for driving boreholes in the ground as claimed in claim 1, having a rotationally driven main shaft (12) comprising a shaft journal (11) whose axis (B) forms an acute angle (w) with respect to the axis (A) of the main shaft (12), and having a drill head (1) working in a drill head space (O), which is mounted such that the drill head can rotate about the axis (B) of the shaft journal (11) in a bearing arrangement (40) and has a circumferential region (18) which runs on a complementary circumferential region (19), ~~as claimed in claim 1~~, wherein a sealing arrangement (50) is provided which at least substantially seals the bearing arrangement (40) relative to the drill head space (O).

Claim 15 (Previously Presented): The device as claimed in claim 14, wherein the sealing arrangement (50) comprises an elastic bellows (51).

Claim 16 (Previously Presented): The device as claimed in claim 14, wherein the sealing arrangement comprises a sliding ring seal.

Claims 17-21 (Cancelled)